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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,424	11/17/2003	Rajendran Nair	9491	
7.	590 04/21/2006		EXAM	INER
Raj Nair			GRANT, ROBERT J	
ComLSI Inc.				
3838 E. Encina	s Ave.		ART UNIT	PAPER NUMBER
Gilbert, AZ 85234			2838	
			DATE MAILED: 04/21/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

				Hit		
		Application No.	Applicant(s)			
Office Action Summary		10/714,424	NAIR, RAJENDRAN			
		Examiner	Art Unit			
		Robert Grant	2838			
Period fe	The MAILING DATE of this communication apor Reply	pears on the cover sheet w	ith the correspondence address			
WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailin led patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 15 J	lanuary 2006.				
2a)⊠	This action is FINAL. 2b) This action is non-final.					
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.[). 11, 453 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) 1-20 is/are pending in the application	1.				
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)	Claim(s) is/are allowed.		·			
6)□	Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)⊠	Claim(s) <u>1-20</u> are subject to restriction and/or	election requirement.				
Applicat	ion Papers					
9)	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ction is required if the drawing	y(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:		§ 119(a)-(d) or (f).			
	1. Certified copies of the priority documen					
	2. Certified copies of the priority documen					
	3. Copies of the certified copies of the pric	*	received in this National Stage			
* (application from the International Burea See the attached detailed Office action for a list		roceived			
`	see the attached detailed Office action for a list	tor the certified copies not	received.			
Attachmor	nt(e)					
Attachmer 1) Notice	nus) ce of References Cited (PTO-892)	4) \Box Interview	Summary (PTO-413)			
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date) 5)	Informal Patent Application (PTO-152)			

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1, 4-13, and 18 are drawn to battery monitoring, classified in class
 320, subclass 134.
 - II. Claims 2, 14-15, and 19 are drawn to current flow estimation, classified in class 324, subclass 76.1.
 - III. Claims 3, 16-17, and 20 are drawn to estimating the device temperature, classified in class 257, subclass 470.
- 2. Inventions of group 1 and 2 are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because group 1 does not require these. The subcombination has separate utility such as estimating the current that is flowing through a gating device, as opposed to regulating current.
- 3. Inventions 1 and 3 are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are

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shown to be separately usable. In the instant case, group 1 has separate utility such as

being an apparatus capable of charging a battery. Group 3's method of estimating the

device temperature is useful in any device that contains a PN junction. See MPEP §

806.05(d).

Inventions of group 2 and 3 are related as subcombinations disclosed as usable

together in a single combination. The subcombinations are distinct from each other if

they are shown to be separately usable. In the instant case, invention of group 2 has

separate utility such as estimating the current that is flowing through a protective circuit.

Group 3's method of estimating the device temperature is useful in any device or circuit

where temperature affects linearity of the device, such as a measurement circuit. See

MPEP § 806.05(d).

5. Because these inventions are distinct for the reasons given above and the

search required for Group 1 is not required for Group 2, the search required for Group 1

is not required for Group 3, the search required for Group 2 is not required for Group 3,

therefore restriction for examination purposes as indicated is proper.

Response to Arguments

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6. Applicant's election with traverse of the restriction of groups I, II, and III, in the reply filed on 1-15-06 is acknowledged. The traversal is on the grounds that both groups II and III require some of the key aspects of group I. This is not found persuasive because as per the applicants own admission, "Group-II cannot be employed separately unless aspects of group-I are embodied,...", therefore Group-II is a non-operative invention, and is therefore subject to a rejection under U.S.C 101, lack of utility. Similarly, "Group-III's method may not be applied to any device that contains a PN junction, ..., since such devices do not embody key aspects of Group-I,...", therefore Group-III is a non-operative invention, and is therefore subject to a rejection under U.S.C 101, lack of utility.

The requirement is still deemed proper and is therefore made FINAL.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert Grant whose telephone number is 571-272-

2727. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

RG

Adolf Deneke Berhane

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Primary Examiner